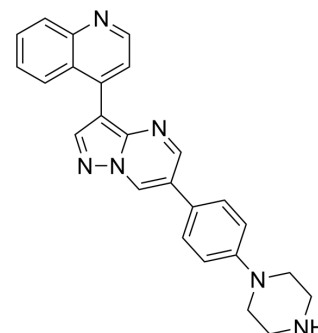


## LDN193189 (GMP)

Cat. No.:	HY-12071G
CAS No.:	1062368-24-4
Molecular Formula:	C <sub>25</sub> H <sub>22</sub> N <sub>6</sub>
Molecular Weight:	406.48
Target:	TGF-β Receptor
Pathway:	TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	LDN193189 (DM-3189) (GMP) is <a href="#">LDN193189</a> (HY-12071) produced by using GMP guidelines. GMP small molecules works appropriately as an auxiliary reagent for cell therapy manufacture. LDN193189 is selective BMP type I receptor inhibitor <sup>[1][2]</sup> .
In Vitro	LDN193189 (GMP) (250 nM; 0-7 d) induces human pluripotent stem cells (hPSC) directly differentiates into midbrain dopamine neurons (mDA) <sup>[1]</sup> . LDN193189 (GMP) (200 nM) induces the generation of glucose-responsive β cells from hPSCs in vitro <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Eur Respir J. 2021 Dec 2;2100327.
- Mol Cell. 2022 Jun 3;S1097-2765(22)00480-4.
- Biomaterials. 2020 May;240:119849.
- EMBO Rep. 2023 Jul 26;e56454.
- Stem Cell Res Ther. 2023 Jan 5;14(1):1.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

[1]. Kim TW, et al. Biphasic Activation of WNT Signaling Facilitates the Derivation of Midbrain Dopamine Neurons from hESCs for Translational Use. Cell Stem Cell. 2021 Feb 4;28(2):343-355.e5.

[2]. Pagliuca FW, et al. Generation of functional human pancreatic β cells in vitro. Cell. 2014 Oct 9;159(2):428-39.

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA